Work Orde Monday, Novem													Page 1
Revision ID: Item Name:	D412-702-30	nbly	l	100	Accept					Setup S	tart top		112 11 11 11 11 12 12 12
Start Date: Required Date: Reference:	11/22/2010 11/30/2010	Start Qty: Req'd Qty	,			Cust Item Customer:							
Approvals:	Process Pla	in:		Date://// Date:	Tooling: SPC (Y/N):		ate:		•		tart top		
Sequence ID/ Work Center II)	Operation Description	<u> </u>		Set Up/ Run Hour	Tool ID	Tool #	Plan Code	Accept Qty	t Reject Qty		eject umber	Insp. Stamp
Draw Nbr DSI 9511	Rev	ision Nbr											
100 Small Fab		M	lemo		0.00				4	310/	/11/	23	
Small Fab		A	ssemble as	s per dwg ICA D4	12-702 p.49			/					
110 			oart compl	leteness to step on	W/O 0.00	u123			(Fe)				
Quality Control	,	143	cmo						`				
120 Packaging			Jama	,	0.00				70	/11/a3	_ <	\mathcal{L}	·

Packaging

Memo

0.00

Packaging

Identify with P/N & CHG# and pack for shipping as per PPP D412-702-305 CHG001
Location: 269
PPP Rev:_____

Work Order ID 63980

Monday, November 22, 2010 1:43:52 PM



Page 2

Item ID:

D412-702-305

Accept



Setup Start

Stop



Revision IP:

Item Name: Harness Assembly

Required Date: 11/30/2010

Start Date:

11/22/2010

Start Qty: 2.00

Req'd Qty: 2.00



Cust Item ID: Customer:

Reference:

Annrovale	Process Plan:	
Approvals:	Process Plan:	

QC:

Date: Date:

Tooling:

Date: Date:

Start Run

Stop



Sequence ID/

Work Center ID

130

QC

Quality Control

Operation Description

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours**

SPC (Y/N):

0.00

0.00

Tool ID

Tool # Plan Code

Reject Accept Qty Qty

Reject Number

Insp. Stamp

Memo

Ficklist Print

Monday, November 22, 2010 1:43:56 PM

Work Order ID: 63980

Parent Item:

D412-702-305

Parent Iter Name:

Harness Assembly



Start Date: 11/22/2010

Required Date: 11/30/2010

Page 1

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:A new issue DD 10.04.30 verified:EC

omponent Item ID/ em Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
1573-1 		Manufactured	No			100	Each	13.0000		2510	/11/0	73	
				Location	<u>[</u>	Loc (<u>Oty</u>	Loc Code		,			
				ST244			13						
•					45926		1		_		-		
					55680		2		_		_		
					57222		10		_		-		
1088-041 		Manufactured	No			100	Each	10.0000	1	2	10/11	23	
				Location	ļ.	Loc (<u>Oty</u>	Loc Code			·		
				ST272A			10						
					62323		10		_	1	_		
324693-S273 		Purchased	No			100	Each	804.0000	4 	* //S	10/11	1/23	>
•				Location	,	Loc	Oty	Loc Code	,		,		
				ST288			804		/	•			
					100151		804		-	4	_		
N960JD10LL 	11 11 11 11 11 11 11 11 11 11 11 11 11	Purchased	No			100	Each	4,171.000	4	* [50/1	1/23	>
				Location	!	Loc	<u>Oty</u>	Loc Code					
				ST349			 4171		•				
					19085		472		_	.,	-		
					19600	:	3699		_	4	-		

Picklist Print

Monday, November 22, 2010 1:43:56 PM

Page 2

Work Order ID: 63980

Parent Item:

D412-702-305

Parel Item Name: Harness Assemb



Start Date: 11/22/2010

Required Date: 11/30/2.10

Start Qty: 2.00

Required Qty: 2.00

MS21042L3

Purchased

No

100

Each 1,659.000

Loc Code

Location	Loc Qty
ST300	1659
114784	663
115835	996

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3 REF TCCA STC SH04-7

REF FAA STC SR01997NY REF EASA STC EASA.I.M.R.S.00710

REFERENCE ONLY

This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point hamesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Hamess Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The hamess for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-351** 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/-052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

D. SHEPHERD (DE # 02)

DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW IS	SSUE	CP	10.03.18						
REV.			DÉSCRIPTION	BY	DATE					
DESIGN		q?	DART AEROSPACE LTD							
DRAWN		9?		HAWKESBURY, ONTARIO, CANADA						
CHECKE	D	Ja .	DRAWING NO.		REV. A					
MFG. AF	PPR.	N/A	DSI 9511		SHEET 1 OF 6					
APPRO\	/ED	10	TITLE		SCALE					
DE APP	R.	4	NEW SHOULDER HARNES	S KITS	NTS					
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INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation instructions IIIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

Part Number	Description	Install similar to:
D412-702-341	Shoulder Harness Kit	D412-702-041B (IIN-D412-702, DSI 9408)
D412-702-343	Shoulder Harness Kit	D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)
D412-702-345	Shoulder Harness Kit	D412-702-045B (IIN-D412-702, DSI 9469)
D412-702-347	Shoulder Harness Kit	D412-702-047B (IIN-D412-702, DSI 9408)
D412-702-349	Shoulder Harness Kit	D412-702-049B (IIN-D412-702, DSI 9408)
D412-702-351	Shoulder Harness Kit	D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408)
D214-702-337	Shoulder Harness Kit	D214-702-037B (DSI 9454)
D205-702-353	Shoulder Harness Kit	D205-702-053B (DSI 9460)
D412-702-301	Harness Assembly	D412-702-101B (IIN-D412-702)
D412-702-303	Harness Assembly	D412-702-103B (IIN-D412-702)
D412-702-305	Harness Assembly	D412-702-105B (IIN-D412-702)
D412-702-307	Hamess Assembly	D412-702-107B (IIN-D412-702)
D412-702-309	Harness Assembly	D412-702-109B (IIN-D412-702)
D412-702-311	Harness Assembly	D412-702-111B (IIN-D412-702)
D412-702-313	Harness Assembly	D412-702-113B (IIN-D412-702)
D412-702-315	Harness Assembly	D412-702-115B (IIN-D412-702)
D412-702-317	Harness Assembly	D412-702-117B (IIN-D412-702)
D412-702-319	Harness Assembly	D412-702-119B (DSI 9454)
D412-702-321	Harness Assembly	D412-702-121B (DSI 9454, DSI 9469)
D412-702-323	Harness Assembly	D412-702-123B (DSI 9454, DSI 9469)

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01

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CHECKED	1	DRAWING NO.	REV. A				
MFG. APPR.	N/A	DSI 9511 SI	HEET 2 OF 6				
APPROVED	10	TITLE	SCALE				
DE APPR.	-#-	NEW SHOULDER HARNESS KITS	NTS				
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PARTS LIST

TABLE 2

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
х		, and the second				D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
	Χ.					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
		Х				D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
			х			D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
				х		D412-702-349	Dart 1-Man 3-Point Forward Shoulder Harness Kit
					X	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
1	1		1	1		D412-702-059	GROMMET KIT
9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408)
2	1		11			D412-702-301	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-7	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
2	1		1			D412-702-303	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-8	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
						D412-702-305	HARNESS ASSEMBLY (NEW)
1*	1*			1*		D3573-1	ADAPTER
1*	1*			1*		D4088-041	SHOULDER HARNESS (NEW)
4*	4*			4*		MS24693S273	SCREW
4*	4*			4*		AN960JD10LL	WASHER
4*	4*			4*		MS21042L3	NUT
				-		W321042E3	
1	1				1	D412-702-307	HARNESS ASSEMBLY (NEW)
1*	1*				1*	D3573-3	ADAPTER
1*	1*				1*	D4088-041	SHOULDER HARNESS (NEW)
4*	4*				4*	MS24693S272	SCREW
4*	4*				4*	AN960JD10LL	WASHER
4*	4*				4*	MS21042L3	NUT
4		-				D412-702-309	HARNESS ASSEMBLY (NEW)
1*	1 1*					D3573-3	ADAPTER
1*	1*					D4088-041	SHOULDER HARNESS (NEW)
4*	4*					MS24693S272	SCREW
4*	4*					AN960JD10LL	WASHER
4*	4*					MS21042L3	NUT
7	7	i			_5,	IVIOL IUTALO	1101

* denotes that part is included in assembly above

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

D. SHEPHERD (DE # 02)

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... continued from previous page

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
1		1				D412-702-311	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-1	BRACKET
1*		1*		<u> </u>		D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-313	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-2	BRACKET
1.		1*	l			D4088-043	SHOULDER HARNESS (NEW)
4*		4*	l			MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*	 	4*				MS21042L3	NUT
1			1			D412-702-315	HARNESS ASSEMBLY (NEW)
1*	 		1+			D3573-5	ADAPTER
1.		 	1*	-		D4088-041	SHOULDER HARNESS (NEW)
4*			4*	·		MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1			1			D412-702-317	HARNESS ASSEMBLY (NEW)
1*			1*	l —	 	D3573-5	ADAPTER
1*	.	-	1*			D4088-041	SHOULDER HARNESS (NEW)
4*	-	 	4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*	†		4*			MS21042L3	NUT
1		1				D412-702-321	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-3	BRACKET
1.		1*		<u> </u>		D4088-043	SHOULDER HARNESS (NEW)
4*	l	4*	 			MS24694S50	BOLT
4*	 	4*	1		<u> </u>	AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1	-	1			 	D412-702-323	HARNESS ASSEMBLY (NEW)
1*	 	1*				D3570-4	BRACKET
1+	 	1*	 	† —		D4088-043	SHOULDER HARNESS (NEW)
4*	 	4*	 	1		MS24694S50	BOLT
4*	 	4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT

* denotes that part is included in assembly above

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CHECKED	8	DRAWING NO.	REV. A				
MFG. APPR.	N/A	DSI 9511 S	HEET 4 OF 6				
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DE APPR.	-#	NEW SHOULDER HARNESS KITS NT					
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QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
2	2					D3542-1	BRACKET
7	3		4	1		D3571-1	GUIDE
2	2					D3571-3	GUIDE
2		2				D3572-041	GUIDE ASSEMBLY
12	6		6	2		D3578-041	DOUBLER
2	2					D3610-041	BRACKET
2	2					D3618-1	CAP
4	4					AN4-10A	BOLT
2		2				AN4-16A	BOLT
4		4			i	AN4-25A	BOLT
4	1	4				AN4-27A	BOLT (DSI 9469)
2	2					AN4-44A	BOLT
2	2					MS24693S274	SCREW
3	3			1		MS24694S56	SCREW
10	2		8			MS24694S58	SCREW
1	1			1		MS24694S60	SCREW
26	6	20				AN960JD416	WASHER
4	4					AN960JD416L	WASHER
12	6	6				MS21042L4	NUT
24	12		12	4		CR3212-4-4	RIVET

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REFERENCE ONLY

TABLE 3

QTY -337	QTY -353	Part Number	Description	
х		D214-702-337	Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft	
	х	D205-702-353	Dart 4-Man 3 Point Aft Facing Shoulder Harness Kit, for UH-1 Aircraft	
1	2	D412-702-311	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2	
1	2	D412-702-313	HARNESS ASSEMBLY (NEW)> SEE TABLE 2	
1		D412-702-321	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2	
1		D412-702-323	HARNESS ASSEMBLY (NEW)> SEE TABLE 2	
1		D412-702-319	HARNESS ASSEMBLY (NEW)	
1*		D3925-041	BRACKET	
1*		D4088-043	SHOULDER HARNESS ASSEMBLY (NEW)	
4*		MS24694S50	BOLT	
4*		AN960JD10L	WASHER	
4*		MS21042L3	NUT	
<u> </u>	1	D3572-043	GUIDE ASSY	
	1 1	D3572-044	GUIDE ASSY	
1	 	D3920-041	SEATBELT GUIDE ASSEMBLY	
2		D3920-5	SEATBELT GUIDE	
1	6	AN4-16A	BOLT	
1	1	AN4-21A	BOLT	
7		AN4-25A	BOLT	
18	12	AN960JD416	WASHER	
9	6	MS21042L4	NUT	

^{*} denotes that part is included in assembly above

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DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

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CHECKED	4	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9511	SHEET 6 OF 6	
APPROVED	149	TITLE	SCALE	
DE APPR.	-#	NEW SHOULDER HARNESS KITS	NTS	
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